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$F_{(t)} = (\cos t, t, \sin t) \cdot dR = (\sin t, \cos t, 1) - f \cdot dR = -\cos t \sin t + t \cos t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + t \cos t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + t \cos t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t \sin t + \frac{1}{2} \int_{-\infty}^{\infty} f(t) dt = -\cos t$
$ \Rightarrow \int (\sin t + \cos t - \cos t + \sin t) dt = \left[-\cos t + t + \sin t + \cos t - \frac{\sin t}{r} \right]^{\frac{n}{2}} = \frac{\alpha - 1}{2} $
May (Jan) (light responsible (2: Frank)=(N+), -4) (6 dh) of air (5) div F2 of (N+2) + fy (-N2) = 1-N -> [(1-n) dndx = [(4x-x+5y-4)dndx = [(4x-x
(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
$\begin{cases} yy y y $
Abo of Copy of mes Dasi, Fry)=(N-1, N) also who so no 6316
16/3 dirt= 2 (n-1) + 2 (n)=1 milions R(t) = costi + sintj (1) dadx = 1 [1-y dy = 9] -[1-2]
5 ((ost - sint) (ost) - (ost)(-sint)) dt = 5 cost dt = [sin17t) + t] = 1
of It (4 of her resolution and I = 6 (1) + 19+nm) da + (ante of willing Culcula (7
-0 / (12+ 59+11)=2, / (an+e tun)=5

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div (carl F), ourl F; dirF messer F=(ny syst, not) intime (1) dirF = / (1x) + / (4zt) + / (12t) = + 2t + 32ta Curl F = (0-12y) i - (2t-0) j + (0-1) k = (-12y, -2t, -1) div (carl F) = d (-2) + d (-2"), d (-n) = Jour 21 21+2+2 = at Nomes of Frances (12) = (12) (12) (12) mies (12) n= (12,12,12) = (1,2,2) -> Fin= 11+1+2+2= => (fadd =a (4aa)) dirf= 2 (1)+ dy (1)+ dz (2)=3 = 3 (1) 3dr = 3 (1) = Fai $r_{(0)} = a \cos i + a \sin \theta j$, $i \in \theta \leq ra$ $\frac{dr}{da} = -a \sin \theta i + a \cos \theta j$, Fzasindi_asosdj → Fodrz-ado Grando = Todi outfz - 1/2 1 no (Tu, 1/2, 1/2) = (nod, 2), doz ta da z a da Grant f - n = $\frac{-r_z}{a}$ - o $\int \int \frac{-r_z}{a} \frac{d}{z} dA = \int \int \frac{-r_d}{a} \frac{d}{z} = -\frac{r_d}{a} \frac{d}{z} = -\frac{r_d}{a} \frac{d}{z}$

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ريس لي المس			
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wh F (1, to, -1)	قايس دل سيات	المراس والمع	JUF 1mds QU" (ci
:why B(1, 1, -1)	ω (A(•,•,•	ارتم ی (۰۰	ب انشرال کار سردی F
il) du z z z dp , dp = nz	$\frac{\partial N}{\partial z}$, $\frac{\partial J}{\partial z}$	v = ; z-e x;	ng = du cities
dn = M D U = erosy + n	12+J(x2)	€ du 2-e	u Siny + 82 + 17(42) 24 A
(2) = 2" + C = du = xy + dg = ay +	+2-12:1 Ge	1g - 1g 20	nz-esiny
V(2,3,2) 2 eosy + 2/2 + 2	-+-	distinct	
) FzVV -> SF.dr = V(8)	(A) = (-0)	+++c)-(1+c)=-a-1
1576,V =	4-	BIAJIA	- (sery 6 a)

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:whi c	~b~/y)	Courle-nds	olivi and (s	مي د ين	ار ۱۱ مؤرة	ر الله المسريد
Curlf	z (21,	-ry, 21	, VS2 (rn, ty, Yz	·) ⇒ 1051	=2	
CD NZ	<u>VS</u>	z (u, t, z)	- Curl F.n = 2	1-17,+5,=	1-32	
(P.	ds= Y	dA =	1 dA = 1	$dA \rightarrow \int \frac{\pi}{\lambda}$	1-3r sint	- rdrd4
(*)	(1-25	sint 0) da	= [Sintu] = 0	ν, _γ , ε), (),	1	
